

# QR-OTS-U

## ACTUATOR INSTALL & ADJUSTMENT

**Caution - Removal of the oxygen tank from the vehicle is necessary before beginning the actuator removal and replacement process.**

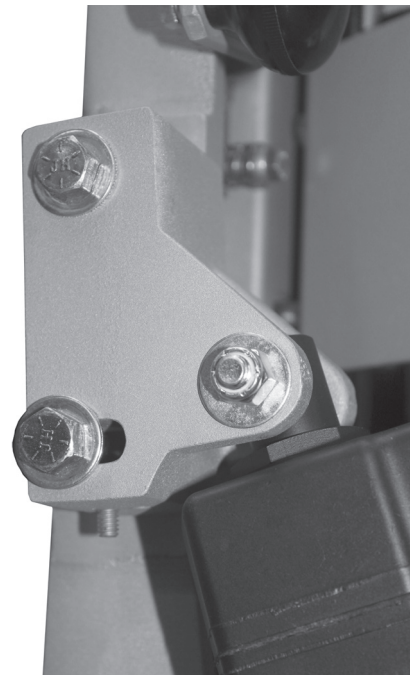
### Removing the inoperable actuator

Make sure the bracket is in the locked position, then back out the two 1/4-20 set screws that are in the underside of the actuator upper mounting bracket until 1/2" is exposed. (*1/8" hex key is needed*) Loosen the two hex head cap screws that hold the actuator upper bracket to the base casting enough to allow it to move. This will unload the shoulder screw and quick release pin that are retaining the actuator. Disconnect the wire to the actuator. Loosen and remove shoulder screw at the upper actuator bracket. Actuator is now free to swing out. Next remove the quick release pin holding the ram of the actuator in the lifting arm. Unlock and carefully move the bracket through the full range of travel.

### Installation of the new actuator

1. Extend ram of the new actuator with electric 12v DC or manually by rotating the ram to measure 21 to 22 inches from the centers of the mounting holes.
2. Back out both 1/4-20 x 3/4" set screws that are in the underside of the actuator upper mounting bracket until 1/2" is showing.
3. Loosen the bolts that secure the actuator upper mounting bracket to the base casting just enough to allow the bracket to swing.
4. Install ram end of the actuator into lifting arm with quick release pin pushing from the inside out.
5. Rotate actuator up with the motor facing out of cabinet. Line up the mounting hole in the bracket and install the shoulder screw. Lightly tighten the nut.
6. Connect wire to actuator. Check that the locking mechanism is unlocked and raise tank bracket to the stored position allowing the actuator to ratchet and close the lock.

7. Pull the actuator towards you and hold it there. Mark a line on the side of the actuator mounting bracket along the face of the base casting.
8. Unlock the tank bracket and lower it to the floor using the actuator.
9. Remove the shoulder screw attaching the actuator to the upper mounting bracket and swing the actuator out of the way.
10. Swing the actuator upper mounting bracket out an additional 1/8" from where you marked your line and tighten the 2-7/16" cap screw holding the bracket.
11. Screw the two 1/4" set screws back in until they make contact with the 7/16" cap screw or are fully engaged into the bracket.
12. Now reattach the actuator to the upper bracket with the shoulder screw and tighten.
13. Check the operation of the actuator and lock mechanism.



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